Lake

Syst m and M thod for R ducing M mory L aks in Virtual Machine Programs

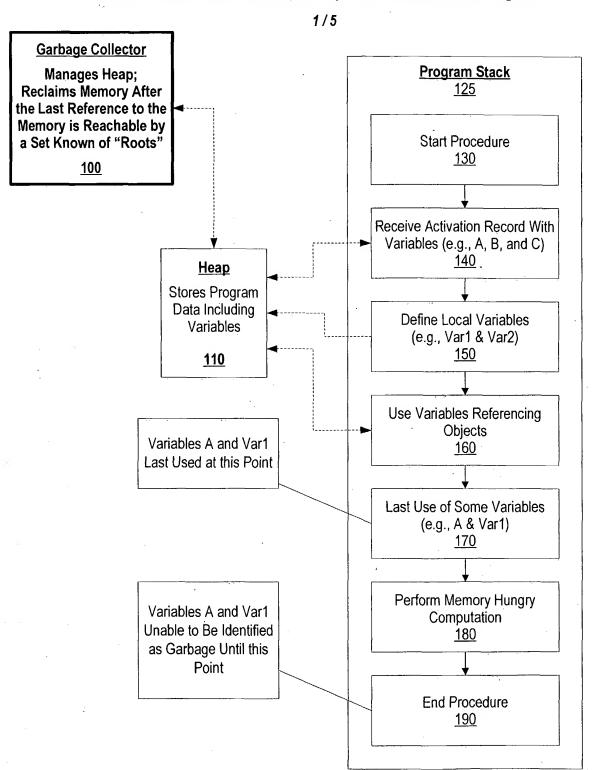
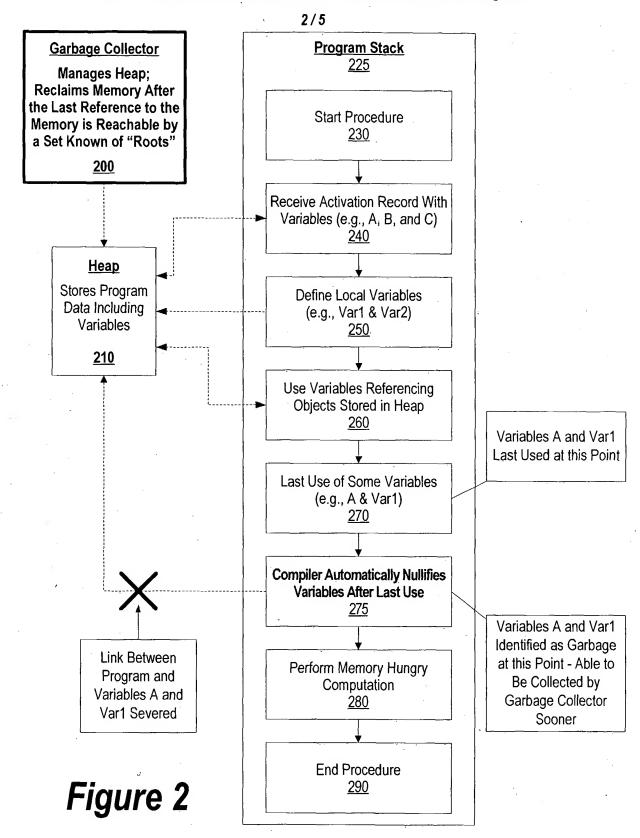


Figure 1 (prior art)

File: IBM-R311

Docket No. RSW920030082US1 Lake

Syst m and Method for Reducing Memory L aks in Virtual Machine Programs

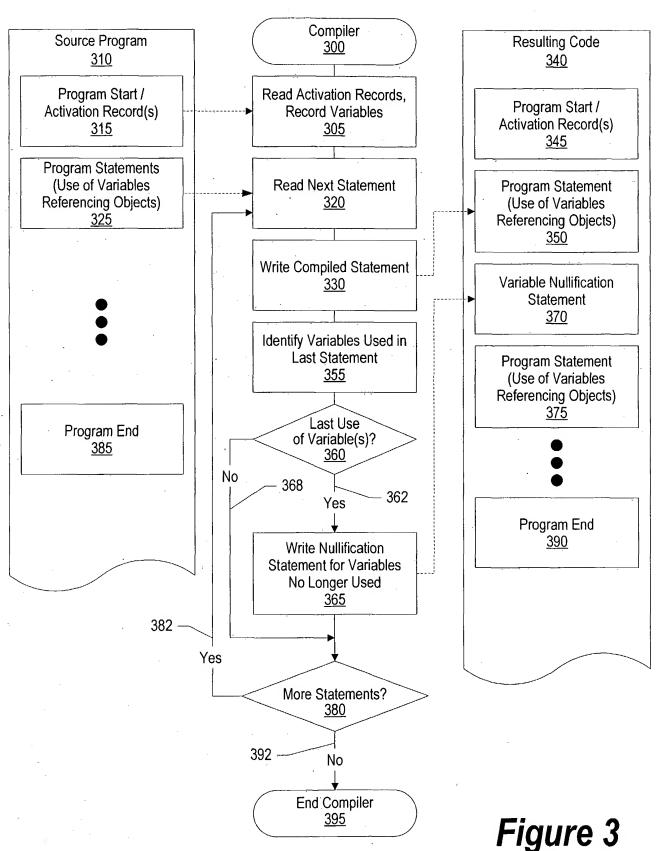


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System and M thod for Reducing M mory Leaks in Virtual Machin Programs

3/5



Fil: IBM-R311

Docket No. RSW920030082US1

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Syst m and Method for Reducing Memory Leaks in Virtual Machine Programs

4/5

```
Example of a Java Program Before Automatically Nullifying Unused References
public void procl(Arg param1, Arg param2; Arg param3){
      Typel value1 = param1.(param2.anInstVar);
      Type2 value2 = param1.fn(value1);
       <no other use of paraml or valuel in the remainder of the procedure>
      param2.memoryHungryComputation(value2, param3);
                                Java JIT Compiler
                                      <u>450</u>
      Example of the Same Java Program After Automatically Nullifying Unused References
                                      <u>460</u>
public void proc1(Arg param1, Arg param2; Arg param3){
       Type1 value1 = param1.(param2.anInstVar);
       Type2 value2 = param1.fn(value1);
       param1 = null; value1 = null;
       <no other use of paraml or valuel in the remainder of the procedure>
       param2.memoryHungryComputation(value2, param3);
 }
```

Figure 4

Docket No. RSW920030082US1

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System and M thod for R ducing Memory L aks in Virtual Machin Programs

5/5

